

Abstract of the Disclosure

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A flat display includes a glass substrate, field emission type electron-emitting source, a front glass member, an electron extracting electrode, and a phosphor film. The electron-emitting source is mounted
5 on the substrate. The front glass member opposes the substrate through a vacuum space and has light transmittance at least partially. The electron extracting electrode has an electron passing hole and is set away from the electron-emitting source to oppose the
10 substrate. The phosphor film is formed on that surface of the front glass member which opposes the substrate. The electron-emitting source includes a plate-like metal member and a coating film. The plate-like metal member has a large number of through holes and serves as a
15 growth nucleus for nanotube fibers. The coating film is formed of nanotubes that cover a surface of the metal member and inner walls of the through holes. A method of mounting a field emission type electron-emitting source is also disclosed.